

FIG. 1

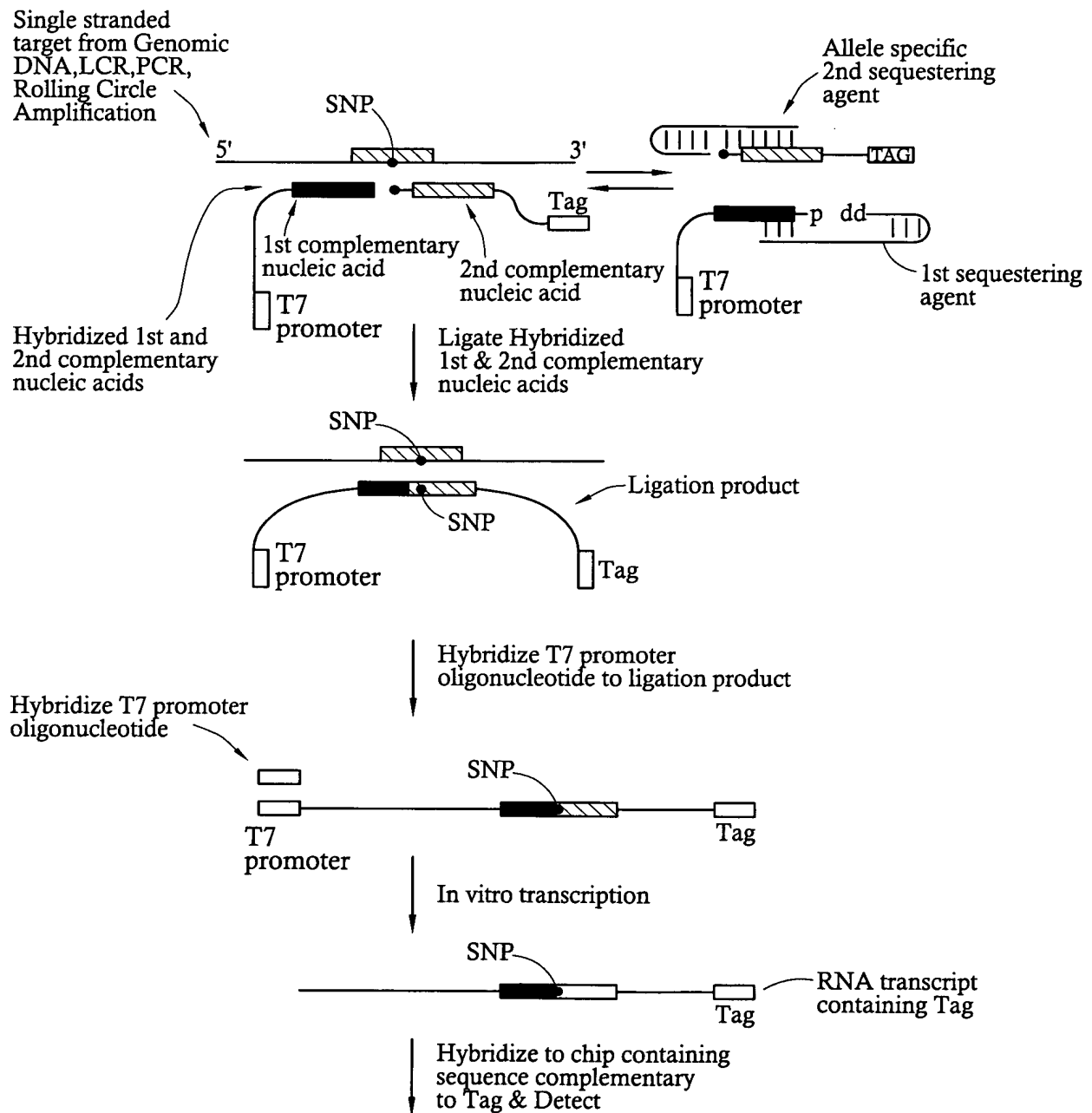


FIG. 2

OLIGONUCLEOTIDE SEQUESTERING AGENTS AND METHODS
OF USE

Donald M. Crothers

Appl. No.: Unknown Atty Docket: GENOM.032NP

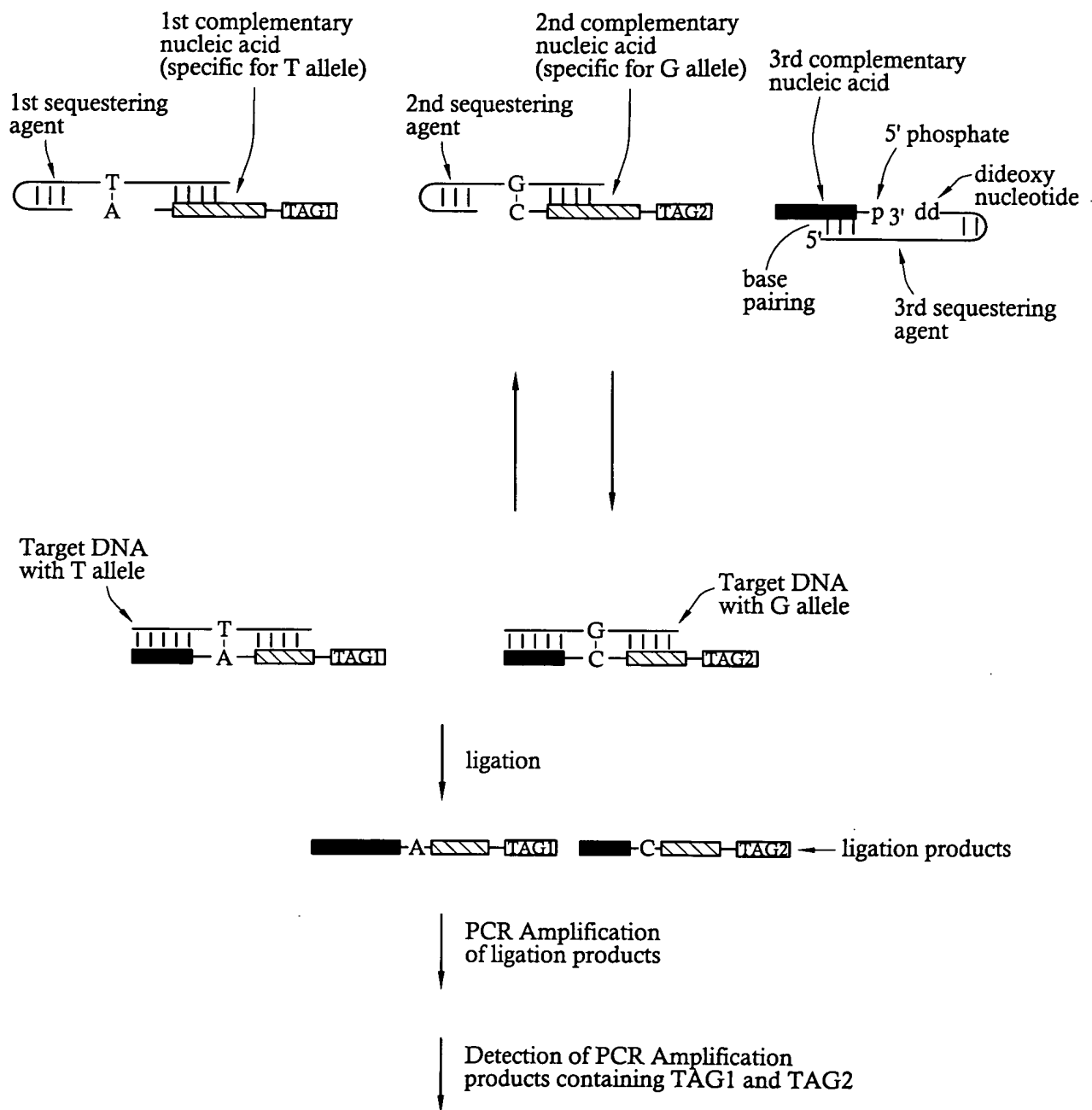


FIG. 3

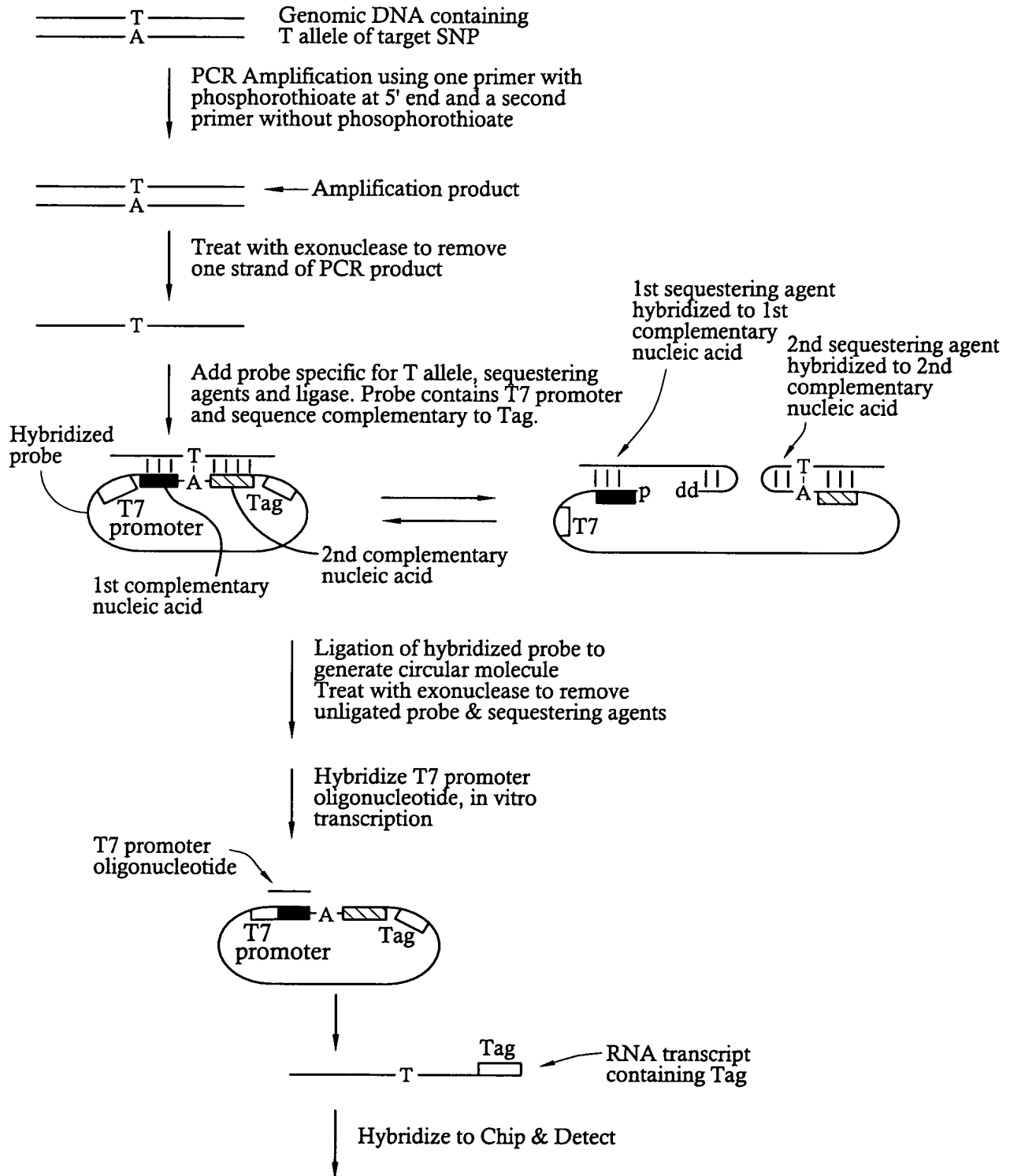


FIG. 4

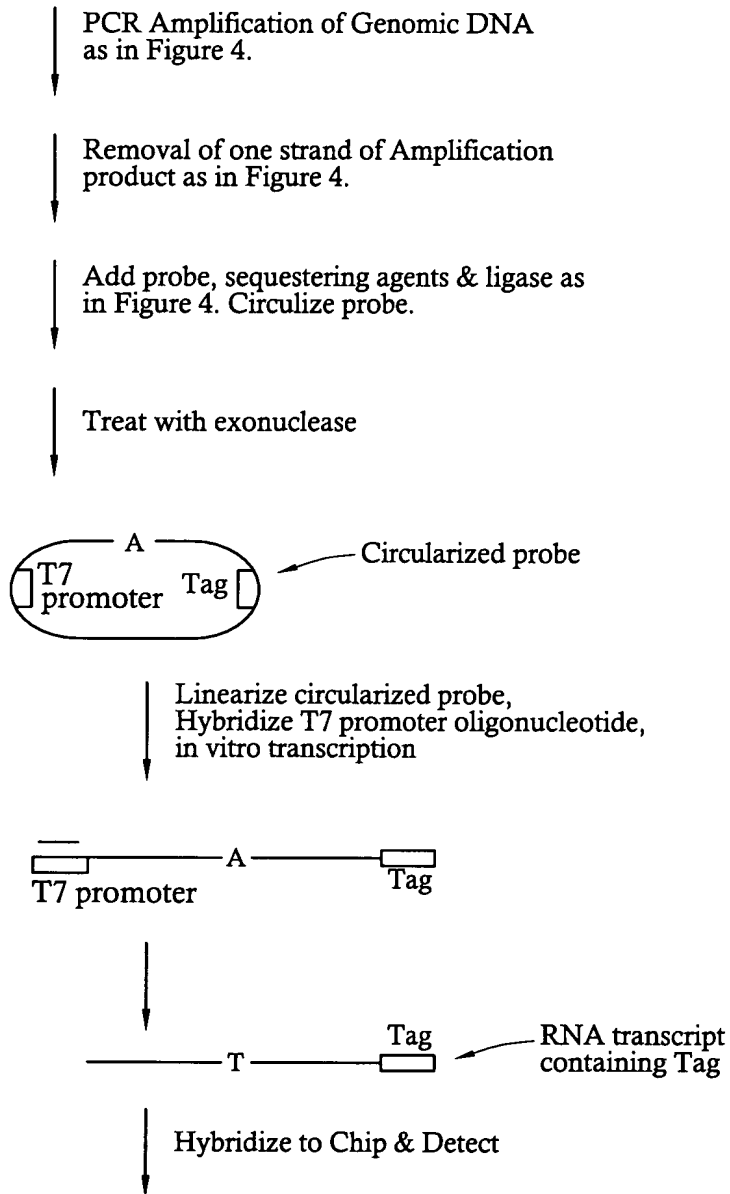


FIG. 5

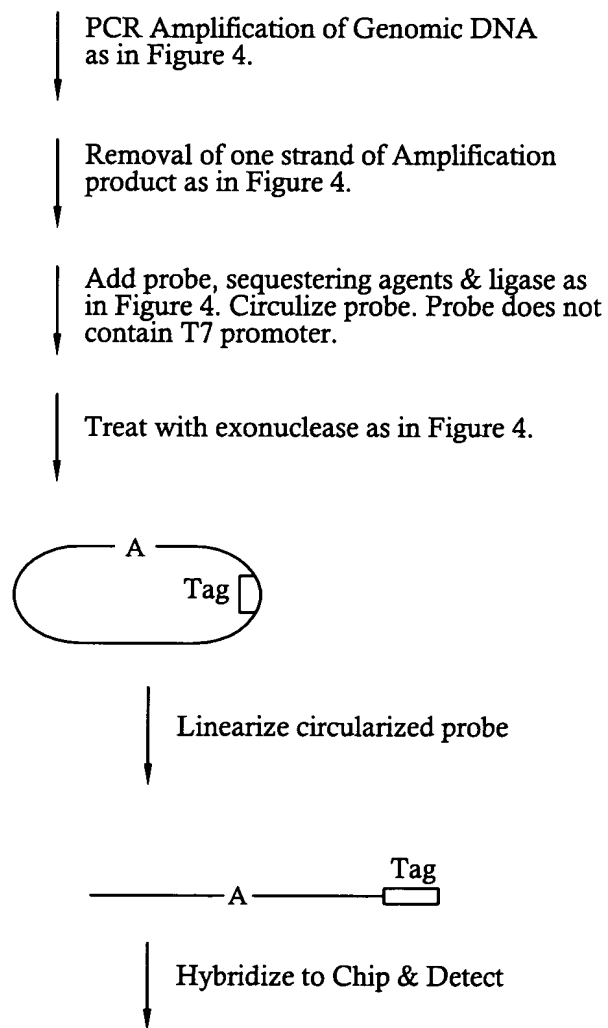


FIG. 6

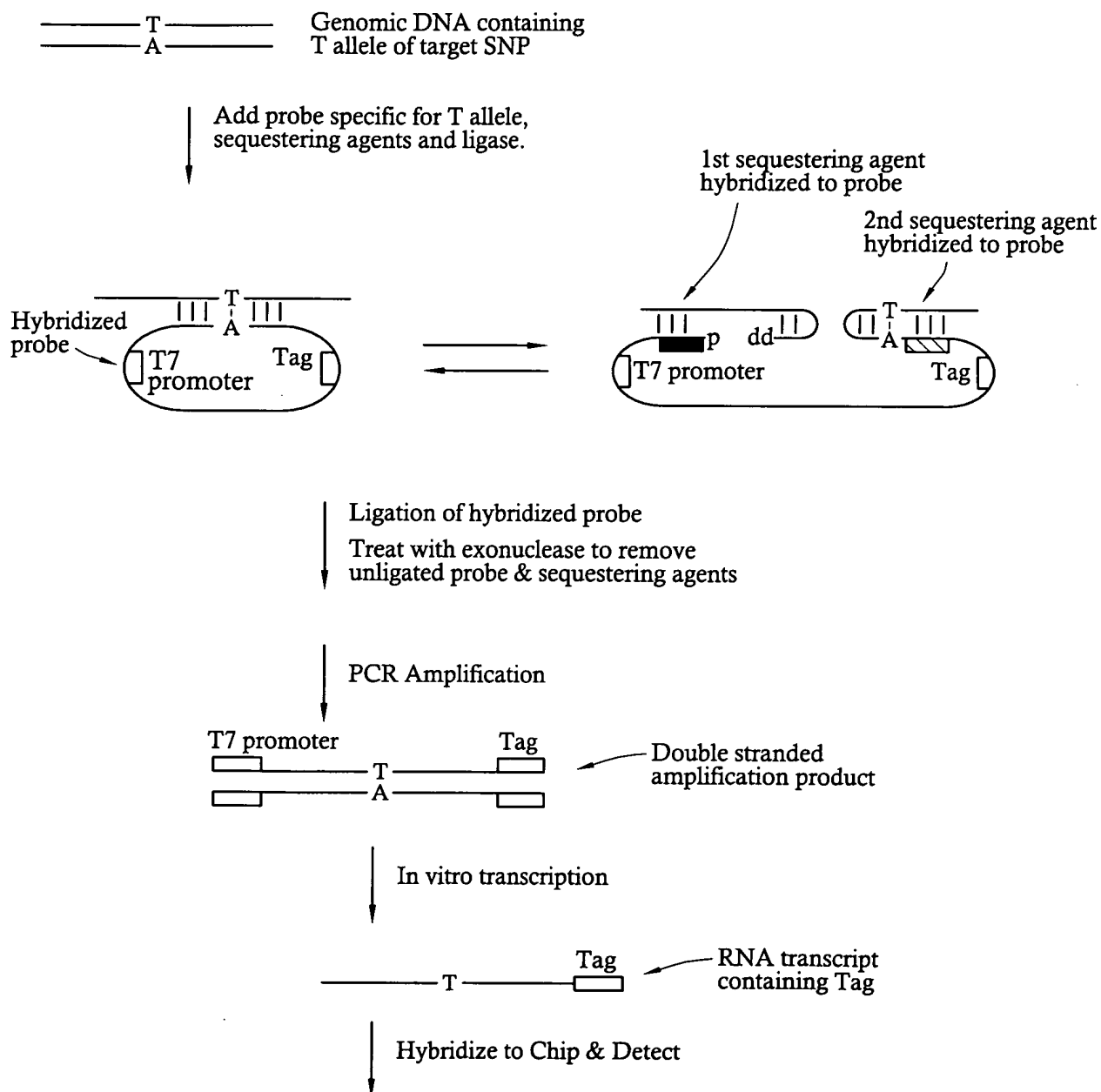


FIG. 7

OLIGONUCLEOTIDE SEQUESTERING AGENTS AND METHODS
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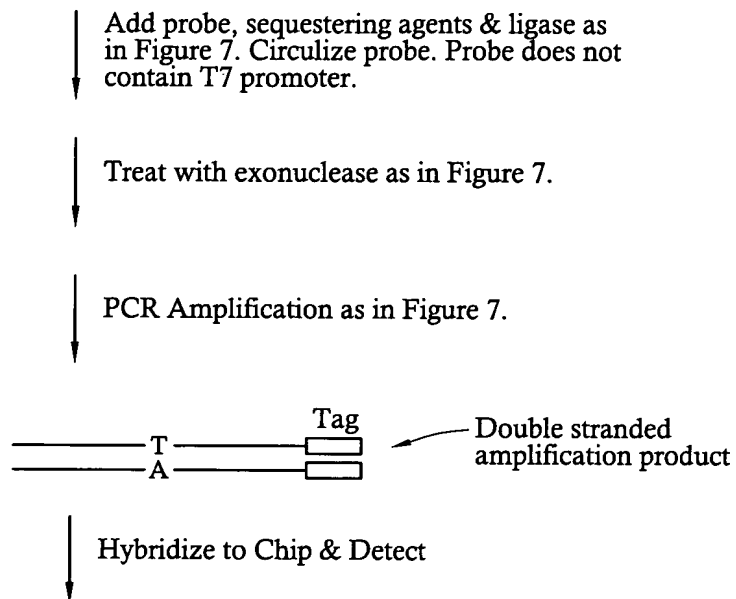


FIG. 8

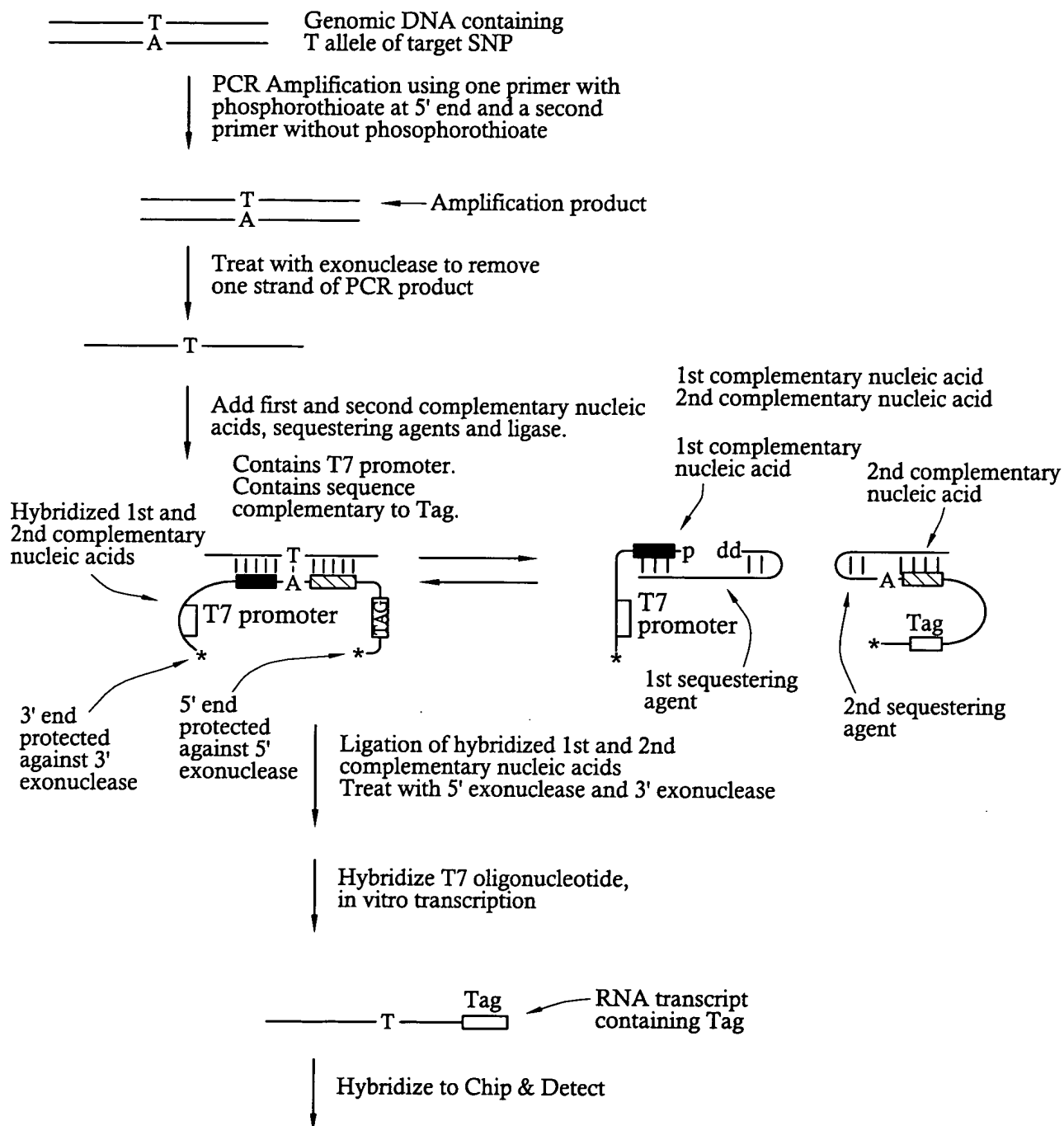


FIG. 9

PCR Amplification using one primer with
phosphorothioate at 5' end and a second
primer without phosphorothioate as in Figure 9.

Treat with exonuclease to remove
one strand of PCR product as in Figure 9.

Add first and second complementary nucleic acids,
sequestering agents and ligase as in Figure 9. 1st
complementary nucleic acid does not contain T7 promoter.

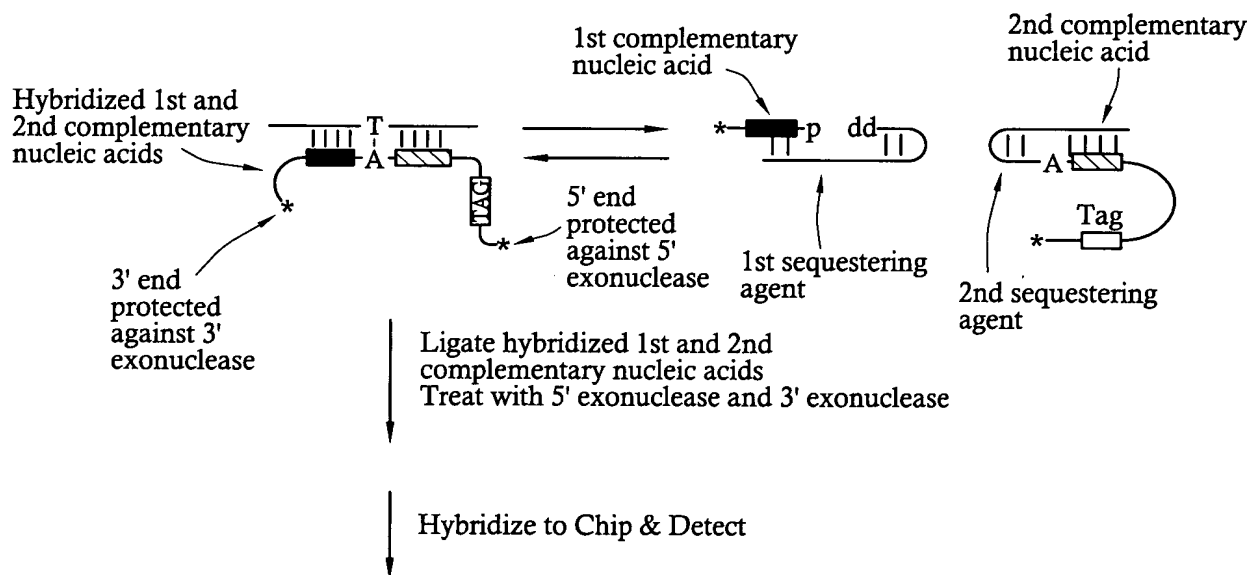


FIG. 10

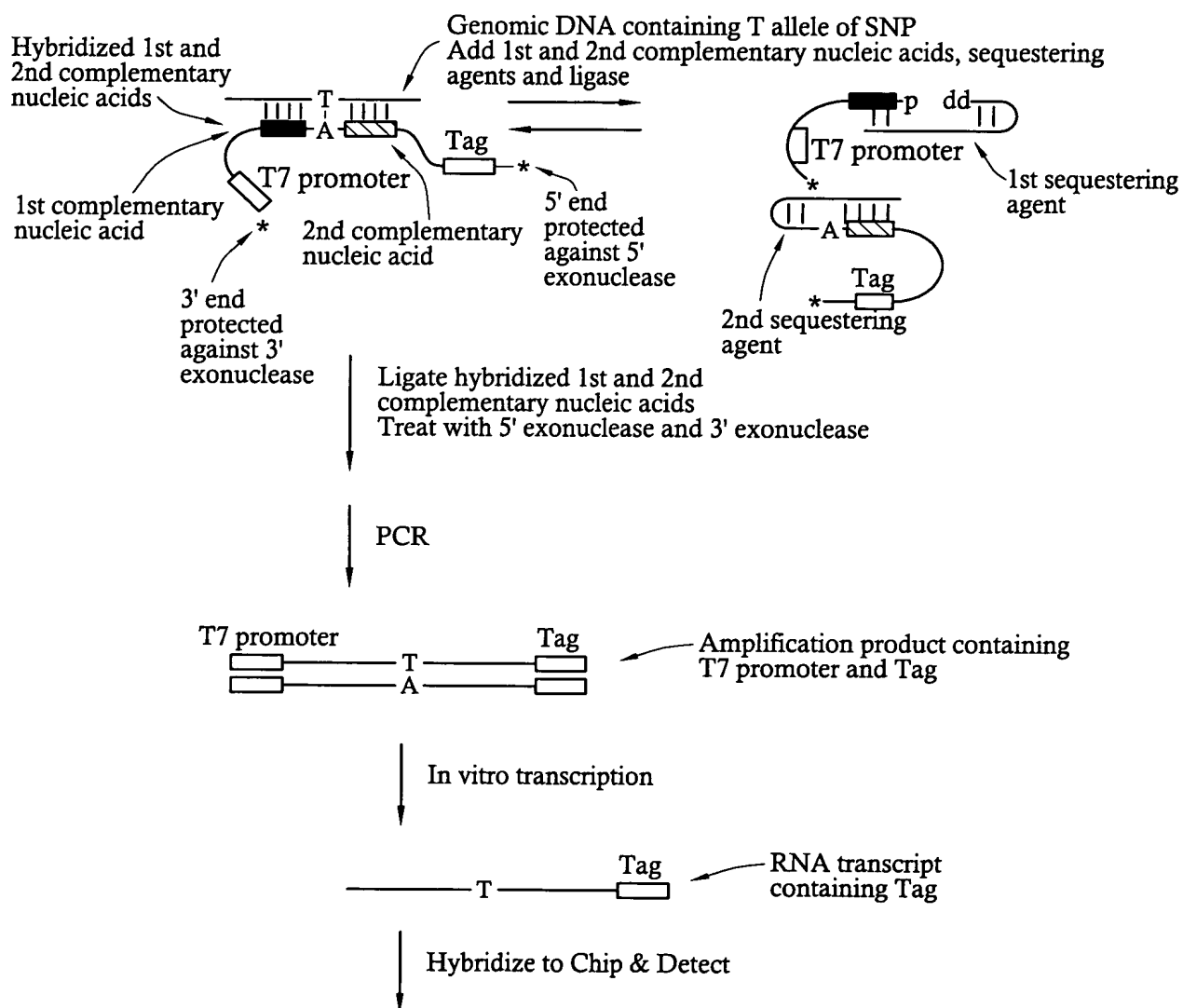


FIG. 11

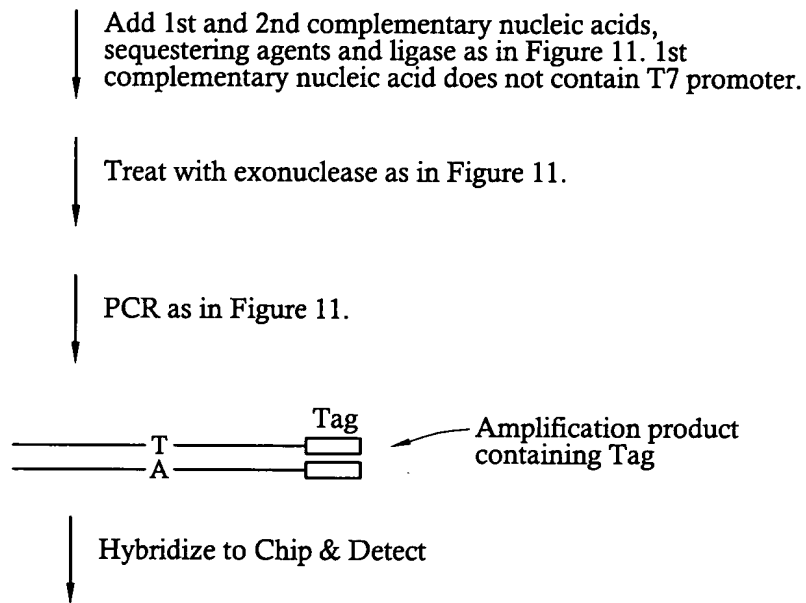


FIG. 12

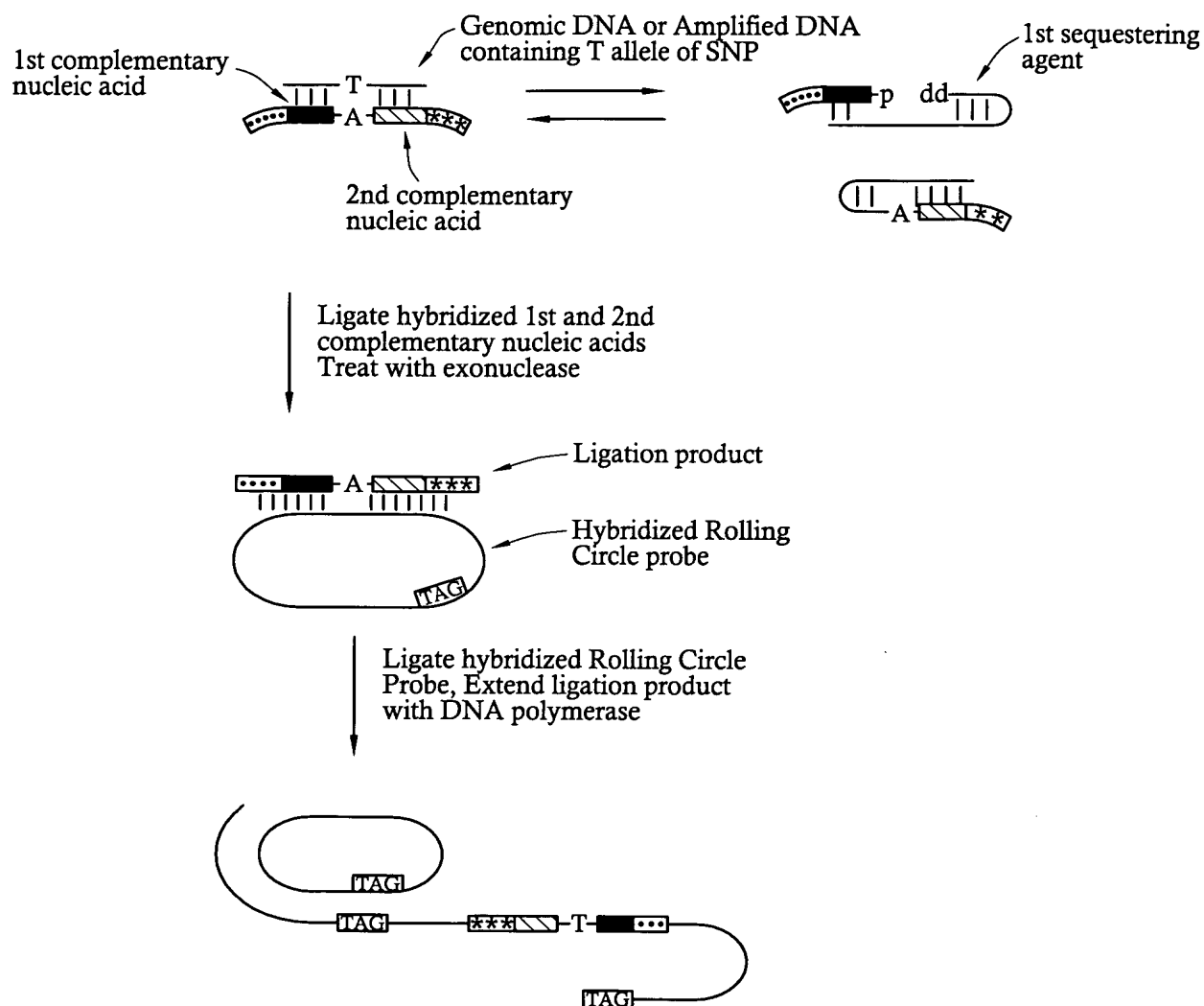


FIG. 13

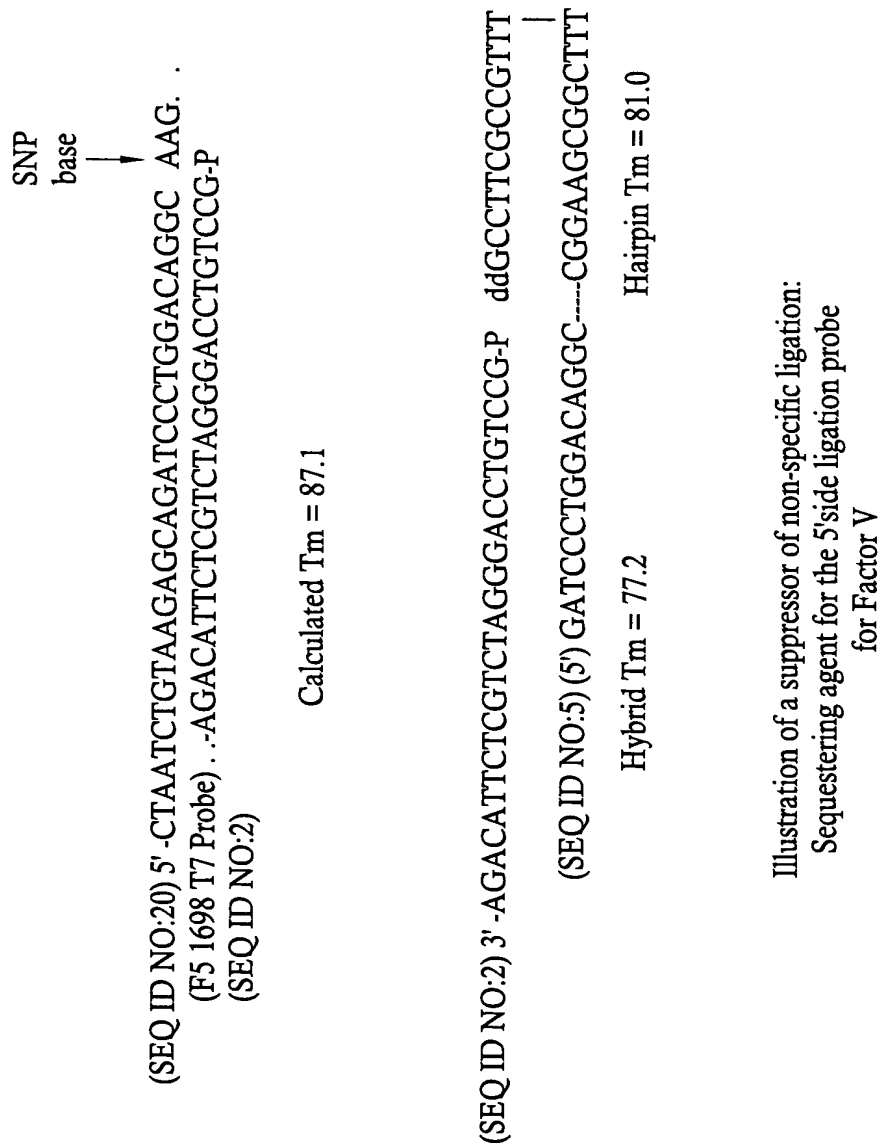


FIG. 14

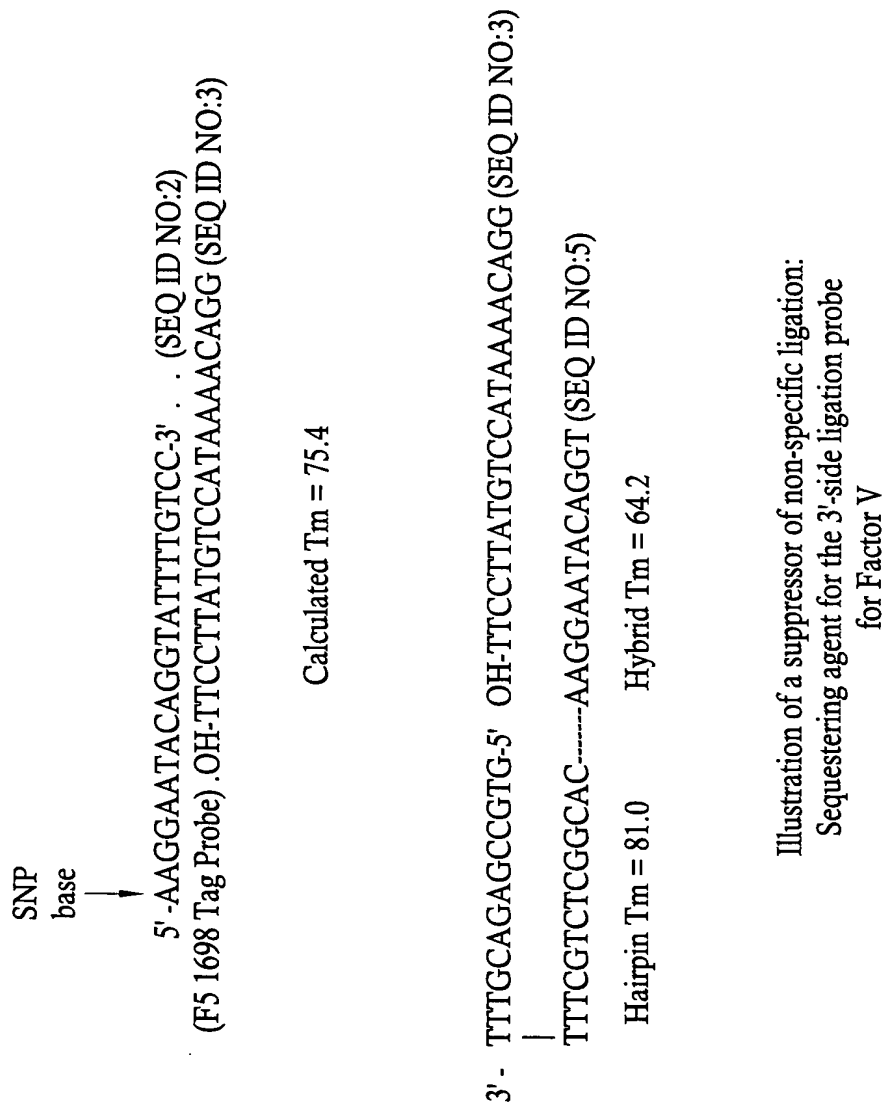


FIG. 15

(SEQ ID NO:20) 5'-CTAATCTGTAAGACAGATCCCTGGACAGGC AAG. .
(F5 1698 T7 Probe) . . -
(SEQ ID NO:22) TAGGGACCTGTCCCG-P-5'

SNP
base
↓

Calculated T_m = 75.4

(SEQ ID NO:22) 3'-TAGGGACCTGTCCG-P DD-GCCTTCGCCGTTT
(SEQ ID NO:23) (5') CCTGGACAGGC----CGGAAGCGGCTTT

Hybrid T_m = 67.7 Hairpin T_m = 81.0

Illustration of a suppressor of non-specific ligation:
Sequestering agent for the 5' side ligation probe
for Factor V

FIG. 16A

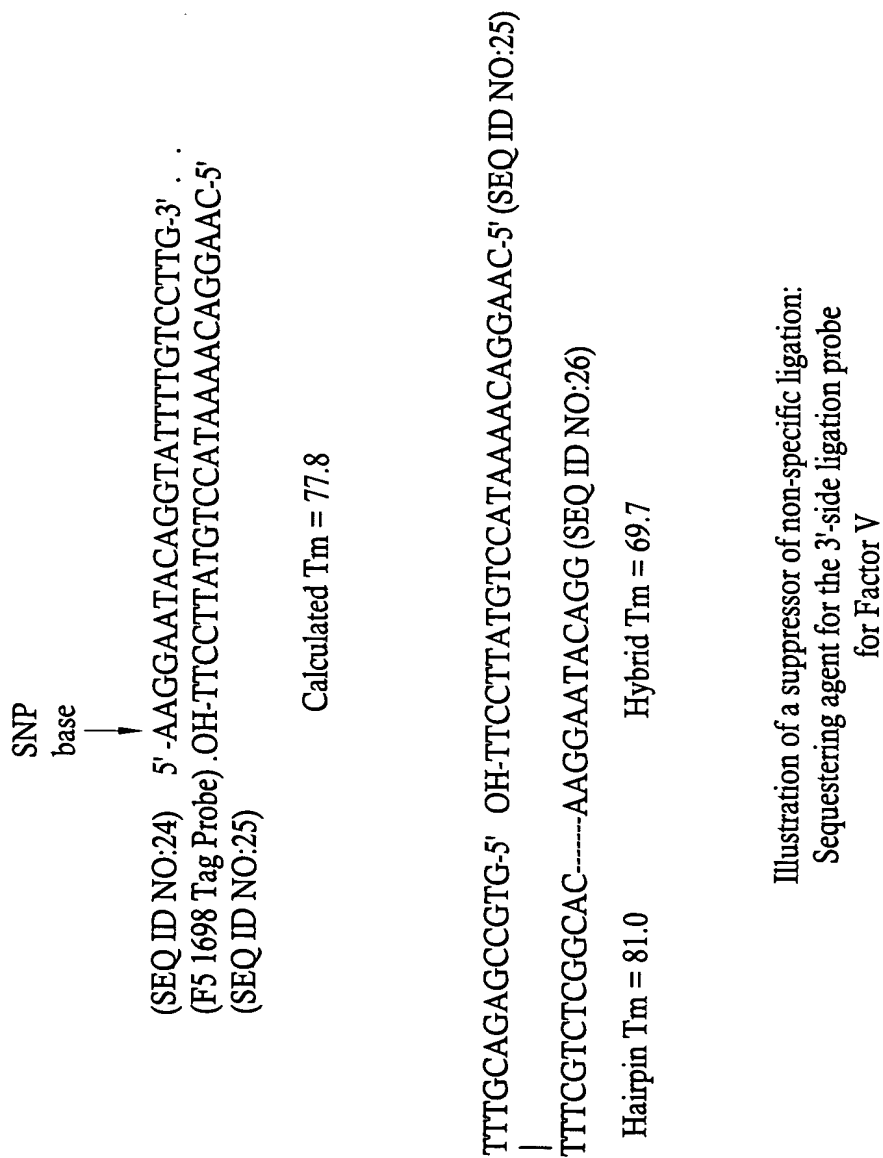


FIG. 16B